232/M.Biol/PR UG/2nd Sem/MB-H-CC-P-04/21

U.G. 2nd Semester Examination - 2021 MICROBIOLOGY [HONOURS] Course Code : MB-H-CC-P-04 (Instrumentation and Biotechniques) [PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Answer any **two** of the following: $10 \times 2=20$

- State the principle and brief methodology for the separation of amino acid mixtures by thin layer chromatography.
- Describe the principle and brief procedure separation of protein mixtures by Polyacrylamide Gel Electrophoresis.
- 3. State the principle and brief methodology determination of λ_{max} and extinction coefficient for an unknown sample. 4+6
- State the principle and brief methodology for the separation of a His-tag recombinant protein from cell lysate by ion exchange chromatography. 4+6